



Maryland HIV/AIDS Quarterly Update

Second Quarter 2020

Data reported through June 30, 2020
 Center for HIV Surveillance, Epidemiology and Evaluation
 Infectious Disease Prevention and Health Services Bureau
 Prevention and Health Promotion Administration
 Maryland Department of Health
<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>
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Section I – Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with HIV be reported by name to the Maryland Department of Health. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and infants born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2019, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through June 30, 2020. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2019.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

New HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.8 percent in the

United States.¹ Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.8 percent in 2018.

AIDS Diagnoses

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Engagement in HIV Care

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Viral Suppression

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Estimates describing the number of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2014–2018. HIV Surveillance Supplemental Report 2020;25(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2020. Accessed May 2020.

most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

Residents of Correctional Facilities

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test

results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2020.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Glossary of Terms

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31, 2019 and not reported to have died as of June 30, 2020.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of June 30, 2020.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Population: Population estimate for July 1, 2019.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2019.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31, 2019 not reported to have died as of June 30, 2020.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Maryland Department of Health Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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Suggested Citation: Maryland HIV/AIDS Quarterly Update, Second Quarter 2020. Baltimore, MD: Center for HIV Surveillance, Epidemiology and Evaluation, Infectious Disease Prevention and Health Services Bureau, Prevention and Health Promotion Administration, Maryland Department of Health. July 2020.

Section II – Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During January 1, 2019 through December 31, 2019, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2020

Jurisdiction of Residence at Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+			Reported AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	61,764	3	0.3%	4.9	3	0.6%	4.9
Anne Arundel	485,680	48	5.2%	9.9	15	3.1%	3.1
Baltimore City	504,269	200	21.5%	39.7	151	31.5%	29.9
Baltimore	698,716	117	12.6%	16.7	49	10.2%	7.0
Calvert	77,905	3	0.3%	3.9	3	0.6%	3.9
Caroline	27,787	3	0.3%	10.8	0	0.0%	0.0
Carroll	143,123	5	0.5%	3.5	6	1.3%	4.2
Cecil	86,690	7	0.8%	8.1	0	0.0%	0.0
Charles	136,026	35	3.8%	25.7	11	2.3%	8.1
Dorchester	27,165	2	0.2%	7.4	0	0.0%	0.0
Frederick	217,096	13	1.4%	6.0	0	0.0%	0.0
Garrett	25,324	0	0.0%	0.0	0	0.0%	0.0
Harford	215,720	10	1.1%	4.6	6	1.3%	2.8
Howard	270,649	23	2.5%	8.5	8	1.7%	3.0
Kent	17,295	3	0.3%	17.3	3	0.6%	17.3
Montgomery	877,406	135	14.5%	15.4	72	15.0%	8.2
Prince George's	761,035	289	31.0%	38.0	131	27.3%	17.2
Queen Anne's	42,995	3	0.3%	7.0	0	0.0%	0.0
Saint Mary's	94,126	5	0.5%	5.3	0	0.0%	0.0
Somerset	22,450	0	0.0%	0.0	0	0.0%	0.0
Talbot	32,407	0	0.0%	0.0	0	0.0%	0.0
Washington	127,813	5	0.5%	3.9	5	1.0%	3.9
Wicomico	87,334	20	2.1%	22.9	12	2.5%	13.7
Worcester	46,024	2	0.2%	4.3	1	0.2%	2.2
Corrections	--	0	0.0%	--	4	0.8%	--
Total	5,086,800	931	100.0%	18.6	480	100.0%	10.6

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During January 1, 2019 through December 31, 2019, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2020

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+					
	No.	Linked to Care		% Late HIV Diagnoses	First CD4 Test Result	
		% 1 mo.	% 3 mo.		% with Test	Median Count
Allegany	3	***	***	***	***	***
Anne Arundel	48	81.3%	85.4%	18.8%	87.5%	371
Baltimore City	200	86.0%	88.5%	24.0%	85.5%	369
Baltimore	117	90.6%	94.9%	18.8%	93.2%	423
Calvert	3	***	***	***	***	***
Caroline	3	***	***	***	***	***
Carroll	5	***	100.0%	***	100.0%	282
Cecil	7	71.4%	71.4%	0.0%	71.4%	525
Charles	35	80.0%	88.6%	20.0%	94.3%	334
Dorchester	2	***	***	***	***	***
Frederick	13	53.8%	61.5%	0.0%	69.2%	326
Garrett	0	--	--	--	--	--
Harford	10	80.0%	90.0%	***	90.0%	330
Howard	23	91.3%	95.7%	21.7%	95.7%	304
Kent	3	***	***	***	***	***
Montgomery	135	90.4%	94.8%	33.3%	92.6%	287
Prince George's	289	87.9%	91.7%	21.8%	92.0%	395
Queen Anne's	3	***	***	***	***	***
Saint Mary's	5	***	***	0.0%	100.0%	342
Somerset	0	--	--	--	--	--
Talbot	0	--	--	--	--	--
Washington	5	***	100.0%	***	100.0%	616
Wicomico	20	90.0%	90.0%	30.0%	90.0%	445
Worcester	2	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	931	86.9%	91.0%	22.9%	90.4%	377

*** Data withheld due to low population counts and/or small numbers

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2020

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	61,764	82	0.2%	132.8	753	112	0.4%	181.3	551	36.6%
Anne Arundel	485,680	1,294	3.9%	266.4	375	1,398	4.4%	287.8	347	8.0%
Baltimore City	504,269	11,964	36.2%	2,372.5	42	10,600	33.5%	2,102.1	48	-11.4%
Baltimore	698,716	3,210	9.7%	459.4	218	3,769	11.9%	539.4	185	17.4%
Calvert	77,905	114	0.3%	146.3	683	127	0.4%	163.0	613	11.4%
Caroline	27,787	68	0.2%	244.7	409	66	0.2%	237.5	421	-2.9%
Carroll	143,123	153	0.5%	106.9	935	162	0.5%	113.2	883	5.9%
Cecil	86,690	122	0.4%	140.7	711	142	0.4%	163.8	610	16.4%
Charles	136,026	494	1.5%	363.2	275	616	1.9%	452.9	221	24.7%
Dorchester	27,165	131	0.4%	482.2	207	148	0.5%	544.8	184	13.0%
Frederick	217,096	368	1.1%	169.5	590	454	1.4%	209.1	478	23.4%
Garrett	25,324	10	0.0%	39.5	2,532	17	0.1%	67.1	1,490	70.0%
Harford	215,720	463	1.4%	214.6	466	516	1.6%	239.2	418	11.4%
Howard	270,649	629	1.9%	232.4	430	695	2.2%	256.8	389	10.5%
Kent	17,295	38	0.1%	219.7	455	46	0.1%	266.0	376	21.1%
Montgomery	877,406	4,091	12.4%	466.3	214	3,544	11.2%	403.9	248	-13.4%
Prince George's	761,035	7,779	23.5%	1,022.2	98	7,926	25.1%	1,041.5	96	1.9%
Queen Anne's	42,995	52	0.2%	120.9	827	57	0.2%	132.6	754	9.6%
Saint Mary's	94,126	141	0.4%	149.8	668	160	0.5%	170.0	588	13.5%
Somerset	22,450	60	0.2%	267.3	374	104	0.3%	463.2	216	73.3%
Talbot	32,407	65	0.2%	200.6	499	75	0.2%	231.4	432	15.4%
Washington	127,813	301	0.9%	235.5	425	349	1.1%	273.1	366	15.9%
Wicomico	87,334	250	0.8%	286.3	349	264	0.8%	302.3	331	5.6%
Worcester	46,024	76	0.2%	165.1	606	67	0.2%	145.6	687	-11.8%
Corrections	--	1,108	3.4%	--	--	216	0.7%	--	--	--
Total	5,086,800	33,063	100.0%	650.0	154	31,630	100.0%	621.8	161	-4.3%

Table 4 – CD4 Test Results During January 1, 2019 through December 31, 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Current Residence, Reported through June 30, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV							
	No.	Recent CD4 Test Result						
		No. with Test	% with Test	Median Count	<200	200-349	350-499	500+
Allegany	112	104	92.9%	618	9.6%	6.7%	19.2%	64.4%
Anne Arundel	1,398	1,060	75.8%	627	6.0%	12.5%	16.8%	64.6%
Baltimore City	10,600	8,027	75.7%	592	10.0%	12.7%	16.4%	61.0%
Baltimore	3,769	2,869	76.1%	647	7.4%	10.7%	14.6%	67.2%
Calvert	127	100	78.7%	686	8.0%	7.0%	17.0%	68.0%
Caroline	66	60	90.9%	694	1.7%	11.7%	5.0%	81.7%
Carroll	162	117	72.2%	688	6.8%	11.1%	12.8%	69.2%
Cecil	142	90	63.4%	606	10.0%	6.7%	18.9%	64.4%
Charles	616	487	79.1%	640	7.0%	12.5%	14.2%	66.3%
Dorchester	148	119	80.4%	647	4.2%	16.0%	14.3%	65.5%
Frederick	454	356	78.4%	628	3.7%	9.0%	16.9%	70.5%
Garrett	17	14	82.4%	670	0.0%	0.0%	14.3%	85.7%
Harford	516	381	73.8%	582	7.9%	13.6%	15.7%	62.7%
Howard	695	530	76.3%	643	7.7%	9.1%	15.7%	67.5%
Kent	46	41	89.1%	683	4.9%	7.3%	4.9%	82.9%
Montgomery	3,544	2,569	72.5%	605	7.2%	11.3%	16.7%	64.8%
Prince George’s	7,926	6,108	77.1%	617	7.3%	11.3%	16.3%	65.1%
Queen Anne’s	57	39	68.4%	729	10.3%	5.1%	12.8%	71.8%
Saint Mary’s	160	123	76.9%	591	4.9%	21.1%	15.4%	58.5%
Somerset	104	93	89.4%	619	6.5%	10.8%	12.9%	69.9%
Talbot	75	65	86.7%	524	12.3%	15.4%	18.5%	53.8%
Washington	349	274	78.5%	644	7.3%	8.8%	16.4%	67.5%
Wicomico	264	217	82.2%	562	12.0%	13.8%	17.1%	57.1%
Worcester	67	56	83.6%	628	3.6%	10.7%	17.9%	67.9%
Corrections	216	181	83.8%	647	3.3%	9.9%	19.9%	66.9%
Total	31,630	24,080	76.1%	614	8.1%	11.7%	16.1%	64.1%

Table 5 – Viral Load Test Results During January 1, 2019 through December 31, 2019 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2019, by Jurisdiction of Current Residence, Reported through June 30, 2020

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	112	103	92.0%	91.3%	3,610
Anne Arundel	1,398	1,092	78.1%	89.5%	14,900
Baltimore City	10,600	8,525	80.4%	86.3%	13,357
Baltimore	3,769	3,030	80.4%	90.2%	6,934
Calvert	127	101	79.5%	93.1%	5,560
Caroline	66	57	86.4%	96.5%	1,560
Carroll	162	122	75.3%	91.0%	7,160
Cecil	142	94	66.2%	85.1%	3,995
Charles	616	494	80.2%	90.1%	6,820
Dorchester	148	119	80.4%	93.3%	6,895
Frederick	454	358	78.9%	92.7%	1,657
Garrett	17	13	76.5%	100.0%	--
Harford	516	390	75.6%	90.0%	7,870
Howard	695	545	78.4%	89.9%	7,907
Kent	46	42	91.3%	81.0%	6,350
Montgomery	3,544	2,586	73.0%	91.0%	10,868
Prince George's	7,926	6,183	78.0%	88.9%	7,500
Queen Anne's	57	43	75.4%	90.7%	8,220
Saint Mary's	160	127	79.4%	88.2%	11,900
Somerset	104	94	90.4%	89.4%	3,785
Talbot	75	63	84.0%	90.5%	6,395
Washington	349	276	79.1%	87.7%	8,535
Wicomico	264	218	82.6%	85.3%	18,640
Worcester	67	56	83.6%	94.6%	15,000
Corrections	216	177	81.9%	86.4%	544
Total	31,630	24,908	78.7%	88.6%	10,000